

INTERNATIONAL SEARCH REPORT

National Application No
PCT/IT 03/00328

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D491/22 C07D471/14 A61K31/47 //(C07D491/22, 307:00,
221:00, 221:00, 209:00), (C07D471/14, 221:00, 221:00, 209:00),
(C07D491/22, 313:00, 221:00, 221:00, 209:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DALLAVALLE S; MERLINI L; PENCO S; ZUNINO F: "Perspectives in camptothecin development" EXPERT OPINION ON THERAPEUTIC PATENTS, vol. 12, no. 6, 2002, pages 837-844, XP002251117 page 840, paragraphs 3.3, 3.4 -page 841 page 842, right-hand column starting with "The combination of favourable modifications...."	1, 2, 4, 13-18
Y	WO 97 00876 A (PLA RODAS FRANCESC; BIGG DENNIS (FR); POMMIER JACQUES (FR); ULIBAR) 9 January 1997 (1997-01-09) cited in the application Compounds of general formula I and data on pages 61 to 65 --- -/-	1, 4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

17 November 2003

Date of mailing of the international search report

09.12.03

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/008939 A1 (MERLINI LUCIO ET AL) 19 July 2001 (2001-07-19) page 3, left-hand column, paragraph 30 -page 8, right-hand column, paragraph 168 ---	1,4
X	DAVID BOM, DENNIS P. CURRAN, ASHOK J.CHAVAN,STEFAN KRUSZEWSKI,STEPHEN G. ZIMMER, KIMBERLY A. FRALEY, AND THOMAS G.BURKE: "Novel A,B,E-Ring-Modified Camptothecins Displayin High Lipophilicity and Markedly improved Human Blood Stabilities" JOURNAL OF MEDICINAL CHEMISTRY , vol. 42, - 1999 pages 3018-3022, XP002251118 the whole document ---	1,2,4, 13-18
A	EP 1 044 977 A (IST NAZ STUD CURA DEI TUMORI ;SIGMA TAU IND FARMACEUTI (IT)) 18 October 2000 (2000-10-18) cited in the application the whole document ---	1-18
X	HERTZBERG R P ET AL: "Modification of the hydroxy lactone ring of camptothecin: Inhibition of mammalian topoisomerase I and biological activity" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 32, no. 3, 1989, pages 715-720, XP002014409 ISSN: 0022-2623 Scheme II, derivative 12 and Table I on page 717 -----	1,3,5,8

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